

Serial No. **10/017,589**
Amdt. dated July 27, 2006
Reply to Office Action of May 2, 2006

Docket No. **HI-0059**

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for formatting voice data comprising:
processing voice packet data received from a base transceiver station (BTS);
expanding the processed voice packet data using a fixed code rate rule; and
transmitting the expanded voice packet data with framing information to a mobile switching center (MSC).
2. (Original) The method of claim 1, wherein a preamble and a message are integrated in the packet data during the processing step.
3. (Original) The method of claim 1, wherein the fixed code rate rule repeatedly generates an equivalent value for each bit of the processed packet data.
4. (Original) The method of claim 3, wherein the number of times the fixed code rate rule repeatedly generates the equivalent value for each bit is pre-designated.

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5. (Original) The method of claim 1, wherein the framing information is synchronous information.

6. (Original) The method of claim 5, wherein the framing information is comprised of a plurality of bits, having values of 0 or 1, and is generated on a regular time basis.

7. (Original) The method of claim 6, wherein a combination order of the plurality of bits is pre-designated.

8. (Currently amended) The method of claim 1, wherein the framing information is inserted in the expanded voice packet data at regular intervals.

9. (Currently amended) The method of claim 1, further comprising:
extracting the second framing information within the a second expanded voice packet data received from the MSC, wherein the voice packet data received from the MSC is expanded by reproducing each bit value of the voice packet data and sequentially integrating the reproduced bit values with the corresponding original bit value;
restoring a size of the second expanded voice packet data to an original size of the voice packet data received from the MSC;

processing the restored voice packet data; and
transmitting the restored and processed voice packet data to the BTS.

10. (Currently amended) The method of claim 9, wherein restoring the size of the voice packet data to the original size comprises:

determining whether the second expanded voice packet data contains the pre-designated number of bit value reproductions for each bit value of the voice packet data received from the MSC;

converting each bit of the second expanded voice packet data to the value identified by a majority of an original bit value and the corresponding reproduced bit values; and
diminishing the size of the second expanded voice packet data to the original size of the voice packet data received from the MSC by removing the reproduced bit values.

11. (Original) The method of claim 10, further comprising removing the pre-designated number of reproduced bit values corresponding to each of the original bit values, if the original bit value has the pre-designated number of corresponding reproduced bit values.

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12. (Currently amended) The method of claim 9, wherein processing the restored voice packet data is accomplished by deleting a preamble and a message integrated within the restored voice packet data.

13. (Original) A method for formatting voice data in a mobile telecommunication system, wherein the system has a first base station controller (BSC) that converts the voice data received from a first base transceiver station (BTS) into a fixed packet format and transmits the converted voice data to a mobile station controller (MSC); and a second BSC that converts the voice data received from the MSC into the fixed packet format and transmits the converted voice data to a second BTS, the method comprising:

expanding the voice data, from the first BTS, and pre-designated information using a fixed code rate rule at the first BSC;

inserting synchronous information into the expanded voice data at the first BSC;

transmitting the expanded voice data with the synchronous information to the MSC;

extracting the synchronous information from the expanded voice data received from the MSC;

restoring the voice data by removing redundant information of the expanded voice data added by the fixed code rate rule expansion;

processing the restored voice data at the second BSC; and
transmitting the processed voice data to the second BTS.

14. (Original) The method of claim 13, wherein the fixed code rate rule repeatedly generates an equivalent value for each bit in the voice data, including the pre-designated information.

15. (Original) The method of claim 13, wherein the synchronous information is inserted into the expanded voice data at regular intervals.

16. (Original) The method of claim 13, further comprising:
judging whether each redundant value within the expanded voice data is changed after each corresponding bit of the voice data is expanded a pre-designated number of times according to the fixed code rate rule; and
converting each bit value of the expanded voice data to the value identified by a majority of an original bit value of the voice data and the corresponding redundant values generated according to the fixed code rate rule.

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17. (Original) The method of claim 13, wherein the synchronous information is comprised of a plurality of bits, having values of 0 or 1, whose combination order is pre-designated and generated on a regular time basis.

18. (Original) The method of claim 13, wherein a synchronization of data is decided based on a combination order of the extracted synchronous information.

19. – 26. (Canceled)